

IN THE CLAIMS:

Please amend the claims as follows:

1 to 4. (Cancelled)

5. (Currently Amended) The fastener installation apparatus as defined in Claim [4] 33, wherein said body portion of each of said plungers is cylindrical and said openings in said fastener member are cylindrical, permitting rotation of said plungers relative to said fixed member.

6. (Cancelled)

7. (Currently Amended) The fastener installation apparatus as defined in Claim [6] 32, wherein said sensor includes sensors ~~are proximity probes, each having~~ an end portion adjacent to, but spaced from said plunger passage, whereby said fasteners do not contact said sensor ~~a proximity probe~~.

8. (Currently Amended) The fastener installation apparatus as defined in Claim 7, wherein said proximity probe is ~~probes are~~ elongated, ~~each having a longitudinal axis extending generally perpendicular to said feed passages and said plunger passages and each having an end portion adjacent to, but spaced from one of said plunger passage, passages.~~

9. (Currently Amended) The fastener installation apparatus as defined in Claim 8, wherein ~~each of said proximity probe is~~ probes are connected by a line to a control, ~~each line~~ extending from said fastener installation apparatus generally perpendicular to said plunger passages.

10-22. (Cancelled)

23. (Original) A fastener installation apparatus, comprising:

- a fixed member;
- a plunger assembly adapted to be fixed relative to said fixed member including a projecting leg having a free end;
- a moveable member spring biased away from said fixed member having a feed passage receiving fasteners for installation by said fastener installation apparatus communicating with a generally transverse plunger passage opposite said projecting leg of said plunger assembly receiving said free end of said plunger through said plunger passage upon movement of said moveable member toward said fixed member to install a fastener in a panel located opposite said plunger passage;
- a stop surface opposite said feed passage defining a surface of said plunger passage limiting movement of a fastener from said feed passage into said plunger passage; and
- an elongated proximity probe having a longitudinal axis extending generally perpendicular to said plunger passage and said feed passage having an end portion adjacent to, but spaced from said plunger passage, sensing a presence of a fastener in said plunger passage without said fastener contacting said proximity probe.

24. (Original) The fastener installation apparatus as defined in Claim 23, wherein said proximity probe is cylindrical having a line connected to a control of said fastener installation apparatus extending from said fastener installation apparatus generally perpendicular to said plunger passage.

25. (Original) The fastener installation apparatus as defined in Claim 23, wherein said plunger assembly includes a plurality of spaced generally parallel legs, each leg having a free end, said moveable member including a plurality of spaced generally parallel feed passages, each feed passage simultaneously receiving a fastener for installation by said fastener installation apparatus, and each fastener passage communicating with a generally transverse plunger passage receiving one of said plurality of spaced generally parallel legs of said plunger assembly and simultaneously installing a plurality of fasteners in a panel located opposite said plunger passage.

26. (Original) The fastener installation apparatus as defined in Claim 25, wherein said plunger assembly includes a body portion and a plurality of spaced generally parallel legs integral with said body portion.

27. (Original) The fastener installation apparatus as defined in Claim 25, wherein said plunger assembly includes a plurality of separate parallel plungers, each plunger including a body portion fixed relative to said fixed member.

28. (Original) The fastener installation apparatus as defined in Claim 27, wherein said body portion of each of said plurality of plungers is received in an opening in said fixed member configured to receive said body portion.

29. (Original) The fastener installation apparatus as defined in Claim 23, wherein said moveable member is comprised of two opposed mating moveable members and said plurality of spaced generally parallel feed passages are defined between said opposed mating moveable members.

30. (Original) The fastener installation apparatus as defined in Claim 23, wherein said fastener installation apparatus includes a shank having a free end connected to said moveable member surrounded by a bushing guiding movement of said moveable member and limiting wear of said shank.

31. (Original) The fastener installation apparatus as defined in Claim 23, wherein said stop surface is a plate releasably attached to said moveable member.

32. (New) A fastener installation head, comprising:
a feed passage receiving fasteners for installation by said installation head having opposed side walls;
a plunger passage intersecting and communicating with said feed passage;
a plunger reciprocating through said plunger passage to install fasteners received from said feed passage into said plunger passage; and
a proximity probe including a sensor in one of said side walls of said feed passage at an intersection with said plunger passage sensing a presence of a fastener in said plunger passage without said fastener contacting said sensor of said proximity probe.

33. (New) A fastener installation apparatus, comprising:
a fixed member including at least two openings each having an end wall;
a plunger assembly including at least two separate parallel plungers each having a body portion configured to be closely received in said openings in said fixed member and a plunger portion projecting from said fixed member each having an end face;
and
a moveable member resiliently biased away from said fixed member having at least two feed passages each simultaneously receiving a fastener to be installed by said fastener installation apparatus and each communicating with a generally transverse plunger passage aligned with one of said projecting plunger portions of said plunger assembly, whereby at least two fasteners are simultaneously installed by said fastener installation apparatus upon movement of said moveable member toward said fixed member, thereby receiving said projecting pilot portion of said plunger assembly through said plunger passages.